

LABOR CABINET
Department of Workplace Standards
Division of Occupational Safety and Health Compliance
Division of Occupational Safety and Health Education and Training

803 KAR 2:019

Receiving and Unloading Bulk Hazardous Liquids

RELATES TO: KRS 338.051, KRS 338.061

STATUTORY AUTHORITY: KRS 338.051(3), KRS 338.061

NECESSITY, FUNCTION and CONFORMITY: Pursuant to the authority granted the Kentucky Occupational Safety and Health Standards Board by KRS 338.051 and 338.061, the following regulation is adopted. The function of this regulation is to set forth minimum safety requirements for employees with respect to receiving and unloading bulk hazardous liquids. This regulation is necessary for effective enforcement of the purposes and policies of the Occupational Safety and Health Act which is to insure so far as is possible, safe and healthful working conditions of Kentucky workers (KRS 338.011).

Section 1. Definition: "*Hazardous liquid*" means, for the purpose of this regulation, a chemical or mixture of chemicals that is toxic, an irritant, corrosive, a strong oxidizer, a strong sensitizer, combustible, flammable, extremely flammable, dangerously reactive or pressure generating or which otherwise may cause substantial personal injury or substantial illness during, or as a direct result of any customary or reasonably foreseeable handling or use.

Section 2. Scope. This regulation will provide employers in Kentucky with specific requirements for chemical handling procedures to control receiving and transfer to storage of bulk hazardous liquids received via motor truck. This applies to chemicals which if inadvertently mixed or transferred to an inappropriate container could result in explosion and/or production of toxic gases. This regulation does not apply to receiving gasoline, fuel oil, or liquefied petroleum gas at retail or wholesale outlets or to industrial filling stations where the industry standard operating procedure requires the hauler to make connections and complete delivery. This regulation does not apply to agriculture.

Section 3. General Requirements.

(1) Signs and labels shall be posted as follows:

- (a) At bulk chemical receiving and storage facilities, capable of unloading tank trucks or trailers signs and labels, readily legible at normal operating positions, shall indicate appropriate contents and item identification at receiving and dispensing connections, valves, tanks, and the storage area perimeter.
- (b) Prominently displayed signs at critical access points shall direct tank truck drivers to plant security stations or to supervisory personnel. Signs at the unloading area shall give specific instruction to drivers not to connect truck tank hoses to chemical receiving lines.
- (c) Bills of lading, freight bills or accompanying paper work should have each hazardous chemical clearly identified by its shipping name (49 CFR) or if N.O.S. (not otherwise specified) by its common name. Handling information clearly indicated for receiver information should be included.

(2) Receiving liquid chemicals.

- (a) Receiving of bulk liquid chemicals shall be coordinated by the receiving department or persons responsible for receiving. Only those persons trained and authorized shall make the required chemical identification and perform or supervise the unloading of hazardous chemicals.
- (b) Prior to unloading, the authorized person shall make an inspection of the accompanying papers, check the load and ascertain its identity.
- (c) If necessary for identification, chemical testing shall be accomplished prior to acceptance.
- (d) The authorized person shall direct the driver to the proper unloading area.
- (e) The receiving area, where chemicals are unloaded, shall be secured behind a locked fence enclosure or all receiving connections shall be under lock and key or made secure by other positive means.
- (f) The authorized person shall be responsible for control of keys or combination to locking devices.
- (g) The tank truck driver may make connection to the tank truck. An authorized person only shall make connection to company receiving connections and supervise the unloading into storage. The tank truck driver may make both connections provided an authorized person is present to identify, check and supervise the connection and unloading. In receiving areas where more than one (1) chemical is stored, the tank connection shall be individually keyed. Connection to different chemical receiving systems shall be locked by separated keying arrangement. Due caution shall be made to prevent spills and to assure that the receiving tank is not overfilled. Prior arrangements shall be made to assure that inadvertent overflow is controlled without exposing employees. (It is recognized that environmental protection regulations require storm or sewer drains also be protected.)
- (h) Upon completion of unloading, the receiving device or the enclosure shall be locked and the key returned to its designated security location or other equivalent action be taken to secure the chemical inventory.
- (I) Appropriate respiratory and other emergency personal protective equipment for the body, eyes, face, etc., shall be immediately available and used in accordance with 29 CFR 1910, Subpart I, as adopted by 803 KAR 2:308.

(3) Training.

- (a) Authorized persons responsible for the acceptance of potentially hazardous chemicals shall have an understanding of the particular hazards associated with those chemicals individually and in combination.
- (b) Internal written operating procedures shall be prepared. All affected employees shall be trained in these procedures.
- (c) Written emergency evacuation plans shall be prepared, and practiced by all potentially affected employees.
- (d) Copies of the operating procedures, emergency evacuation plans, and a listing of personnel authorized to receive bulk chemicals shall be on the premises and available to employees and to compliance safety and health officers.

(e) Employees subject to exposure in the storage area requiring the use of respirators shall be fitted for and trained in their use, all in accordance with 29 CFR 1910.134, as adopted by 803 KAR 2:308.

(f) Special first aid procedures shall be prepared for the potential injuries of the operation. First aid capability shall be in accordance with 803 KAR 2:310.